

PRODUCTION OF AMINONAPHTHOLS

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Abstract

PURPOSE:To obtain the subject compound useful as an additive for photography, etc., in high yield, from hydroxynaphthalenehydroxamic acids, by using Lossen rearrangement reaction.
CONSTITUTION:The aminonaphthols of formula II can be produced by Lossen rearrangement reaction of hydroxynaphthalenehydroxamic acids of formula I (W is benzene ring condensed to another benzene ring). The method is especially effective in synthesizing 2-amino-3-naphthol which is hardly synthesizable owing to the difficulty in the introduction of amino group into the 3-site of 2-naphthol. The process enables relatively free synthesis of various aminonaphthols to enable the control of the characteristics (e.g., photographic sensitivity and storage stability) of a photo-sensitive sensitizing dye, etc., over a wide range.

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